

Top 3 Pilot Requests for Weather Forecasters









Weather today vs weather 10 years ago







Change your point of view to the end user



Who is in the audience?

- Pilot
- Instrument Rated
- Proficient? (Flies at least 3 times per week in real world xc)





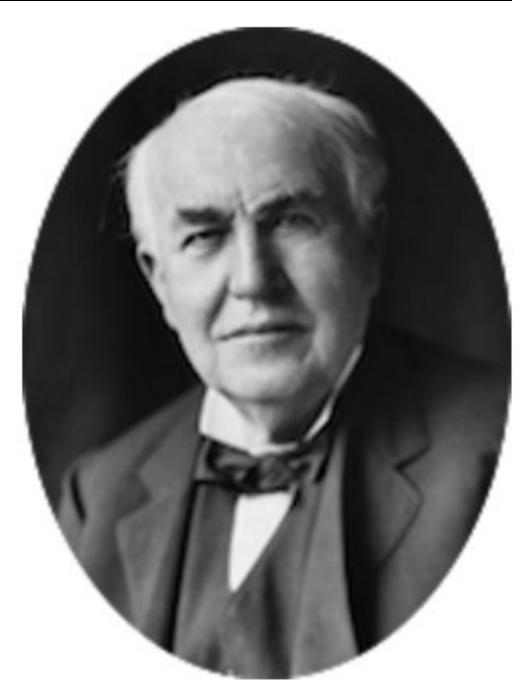
>100 Pilot Requests

- Cloud Tops
- Confidence Factor
- Smoke Intensity
- VFR Cloud Layers
- Speak English
- Add Temps to TAF
- Wx forecast by a/c type
- Icing layers
- Add VFR not recommended
- VFR lowest clouds
- Integrate webcams
- Turbulence tops
- Change the term showers
- Reduce the geographical size of Airmets/Sigmets/CWA
- Change terms
- Smoke Intensity





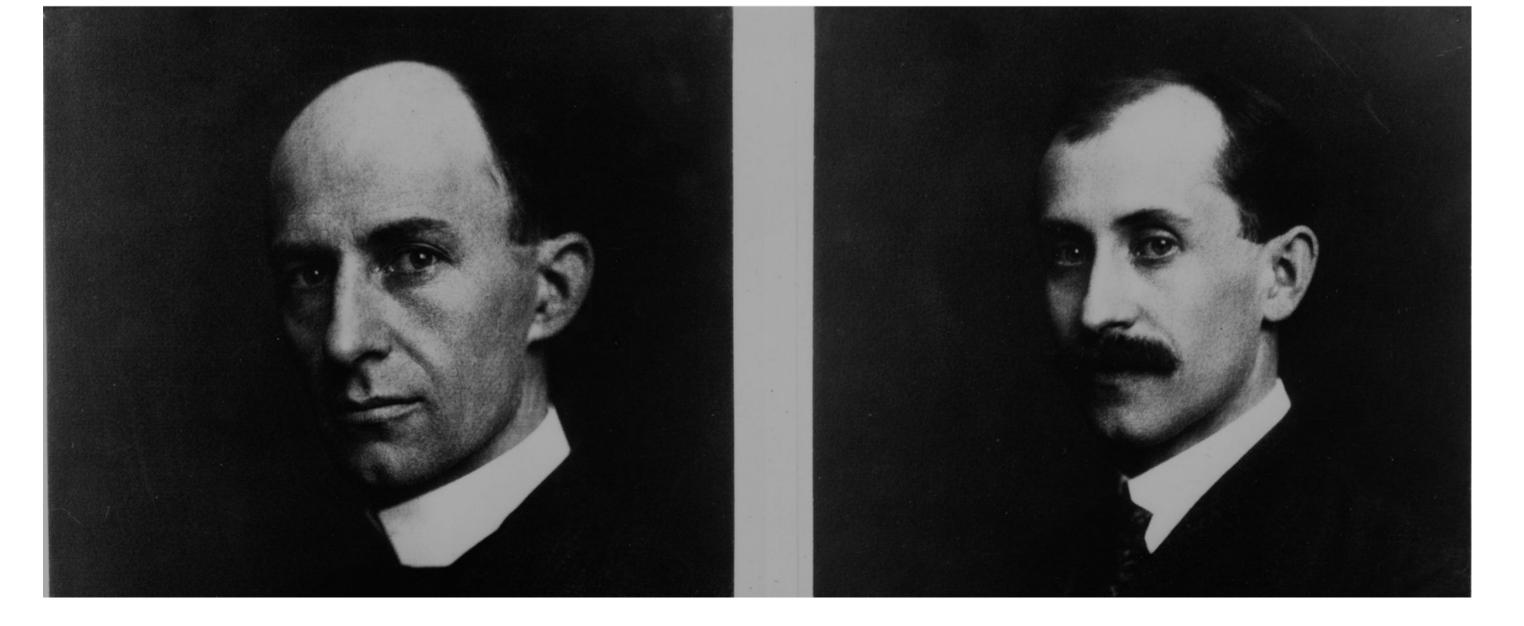
Impossible things



It is apparent to me that the possibilities of the aeroplane, which two or three years ago were thought to hold the solution to the [flying machine] problem, have been exhausted, and that we must turn elsewhere.

— Thomas Edison, November 1895





"Edison can go suck a lemon..."

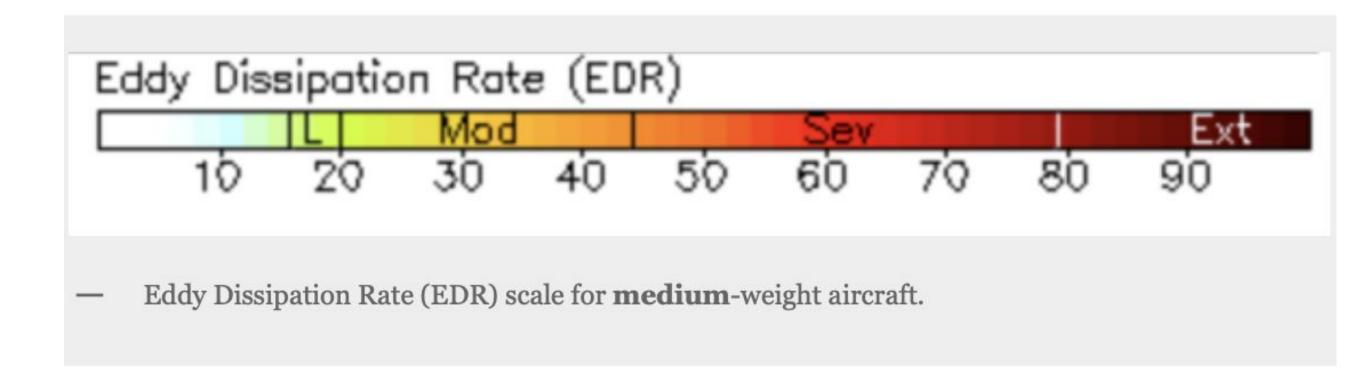
-Orville & Wilbur, 1903

I M P O S S I B L E



Four Levels of Turbulence

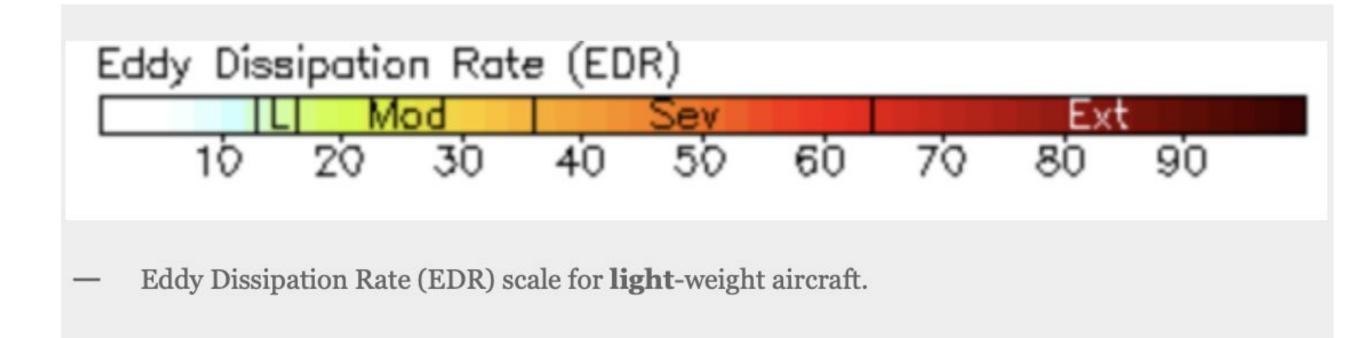
Light = Bouncy Moderate = Displacement Severe = Momentary LOC Extreme = Total LOC + Damage

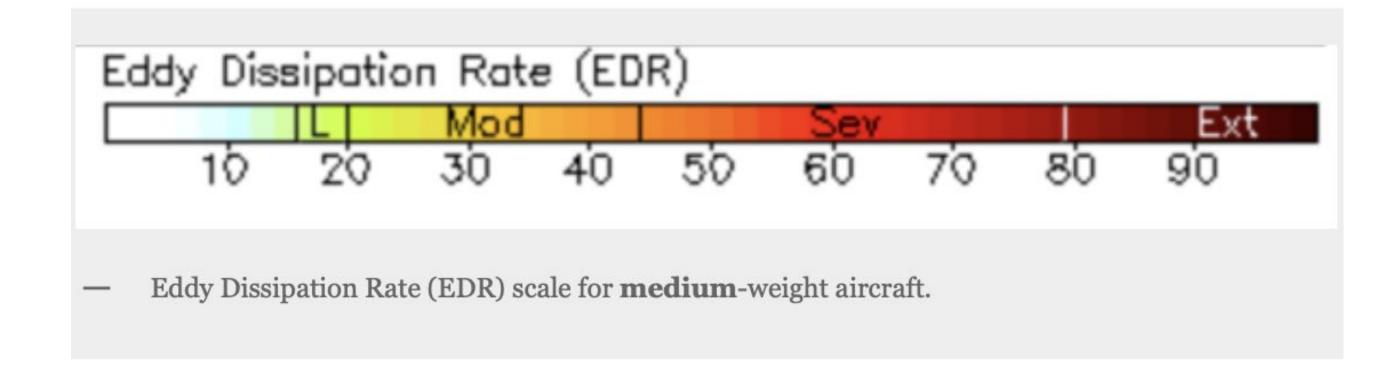


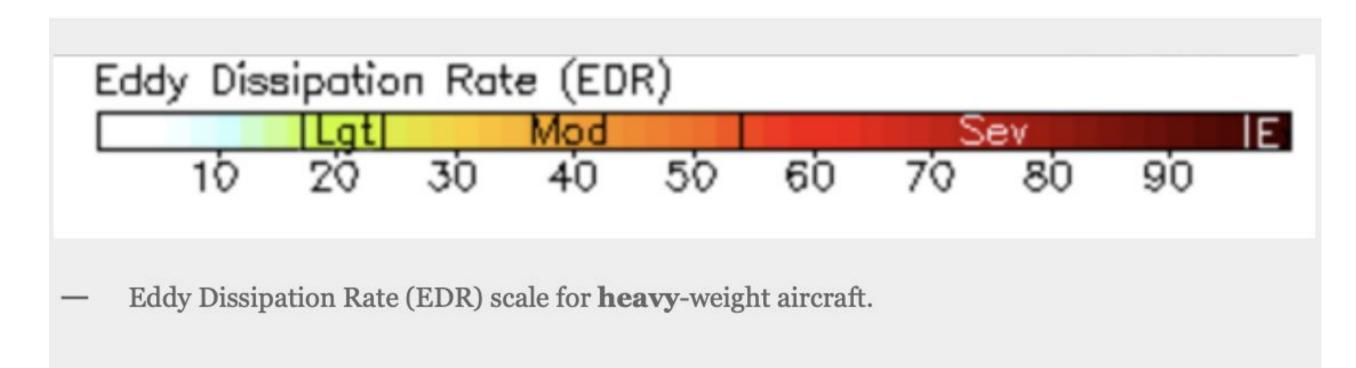


3 Types of Aircraft

Light
Medium
Heavy









Category Example Weight

43 Types of Aircraft





Light <15,750

Medium <300,000





Heavy



>300,000





Four Levels of Icing

Trace Pitot Heat

Light On Low

Moderate On High

Severe

Not enough Emergency Diversion



FIKI vs non FIKI

- Flight Into Known Icing
- Known = *PIREPS*
- Different Capabilities





Possible Solutions

- Change Categories Light <5K, Medium <50K, Heavy <200K, Super?
- Add text Not recommended for Light GA?
- ????

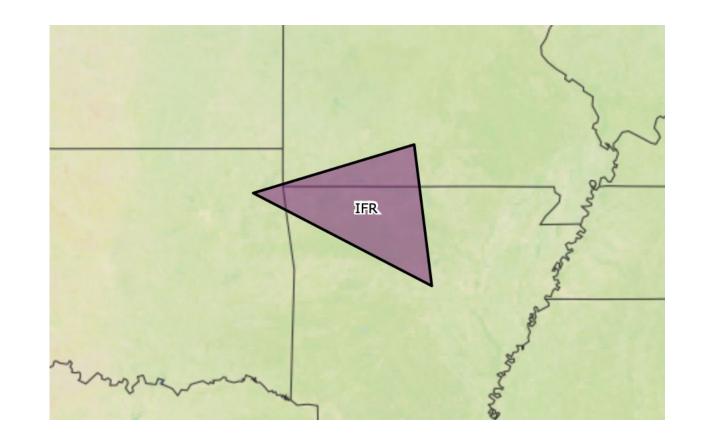


That's great but I have questions...





- When will conditions improve?
- What are the cloud tops?
- What is occasional?
- Are the conditions already expired?



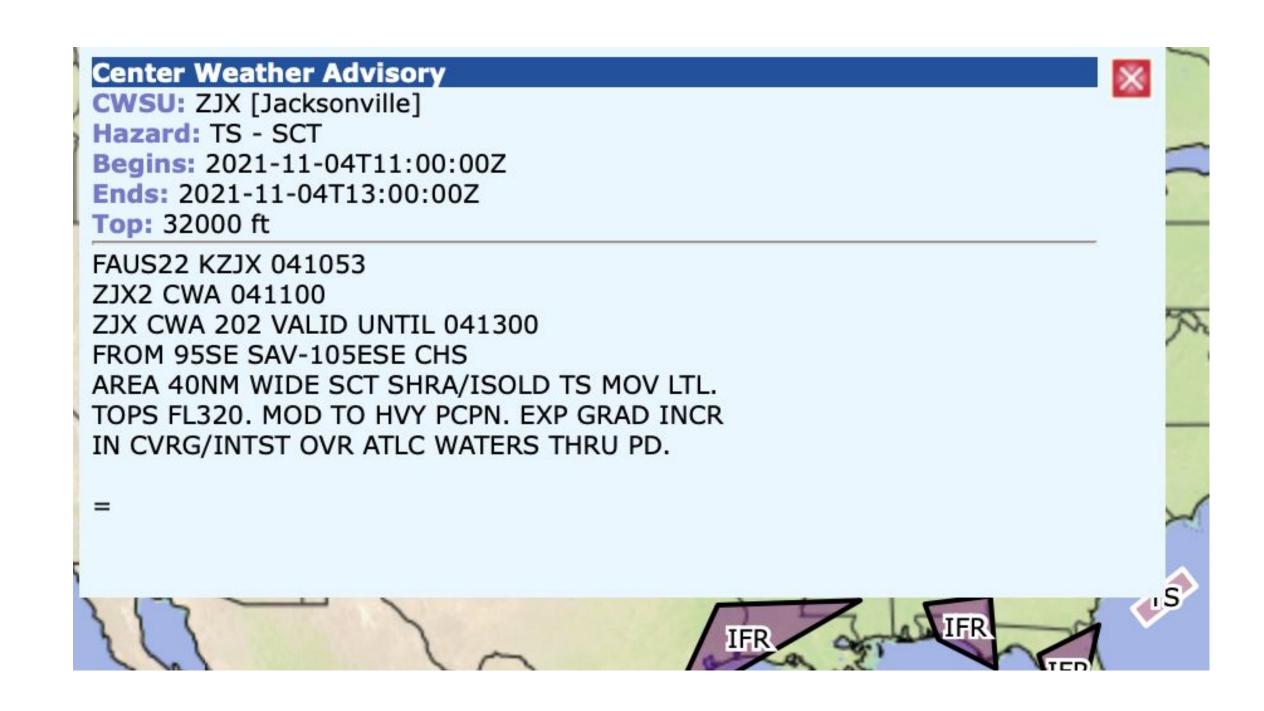
CWSU: ZME [Memphis] **Hazard:** IFR - OCNL

Begins: 2021-11-04T12:20:00Z **Ends:** 2021-11-04T14:20:00Z

FAUS21 KZME 041222 ZME1 CWA 041220 ZME CWA 101 VALID UNTIL 041420 FROM 45ESE SGF-30N LIT-35ENE TUL-45ESE SGF AREA OCNL LIFR CONDS IN BR/FG. CIG AOB 002. VIS 1-3SM OCNL BLO 1SM. CONDS EXPD IMPRV. AR MO OK

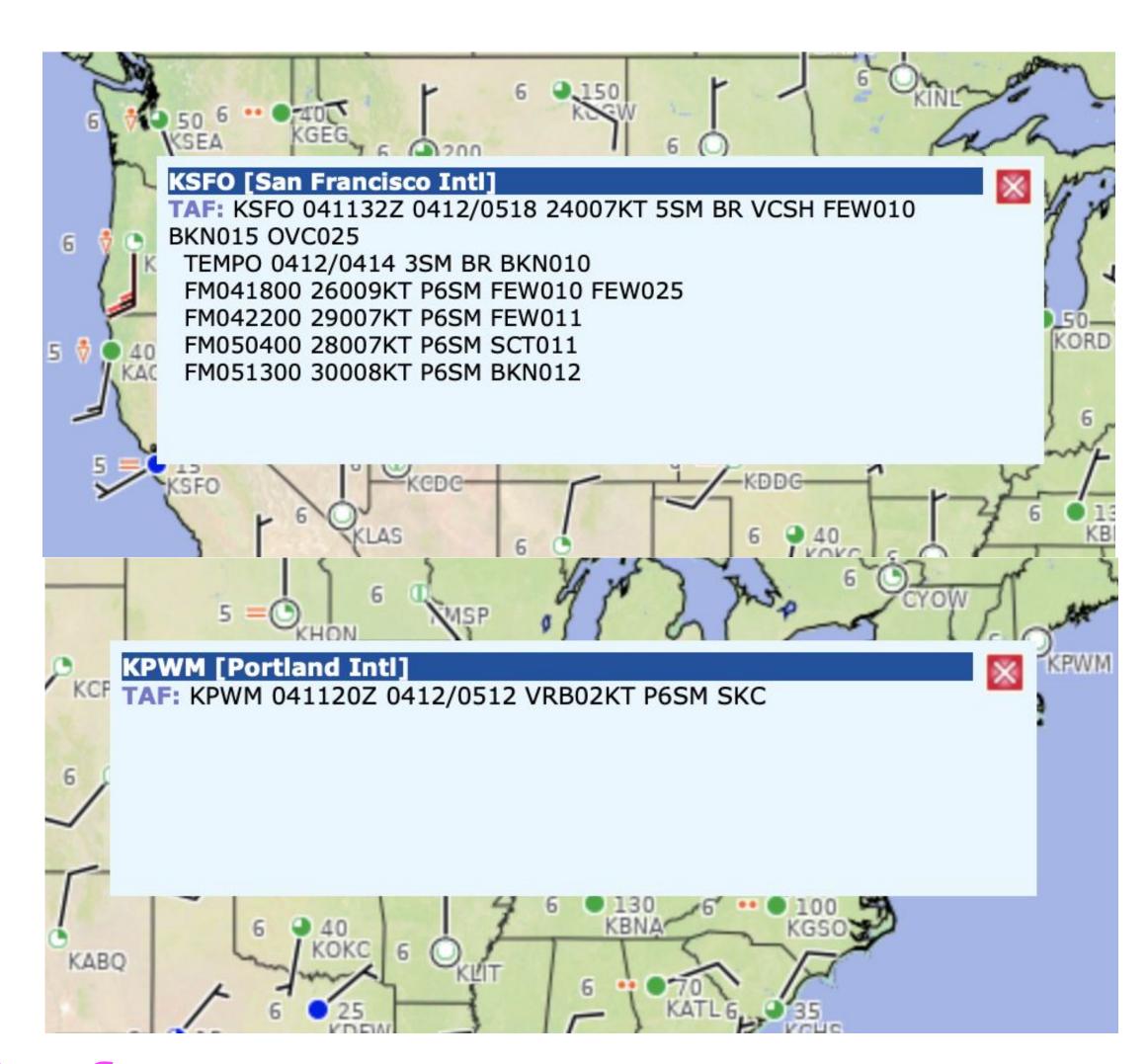


- Scattered?
- Isolated?
- What is gradual increase?
- Does ATC check for Heavy?



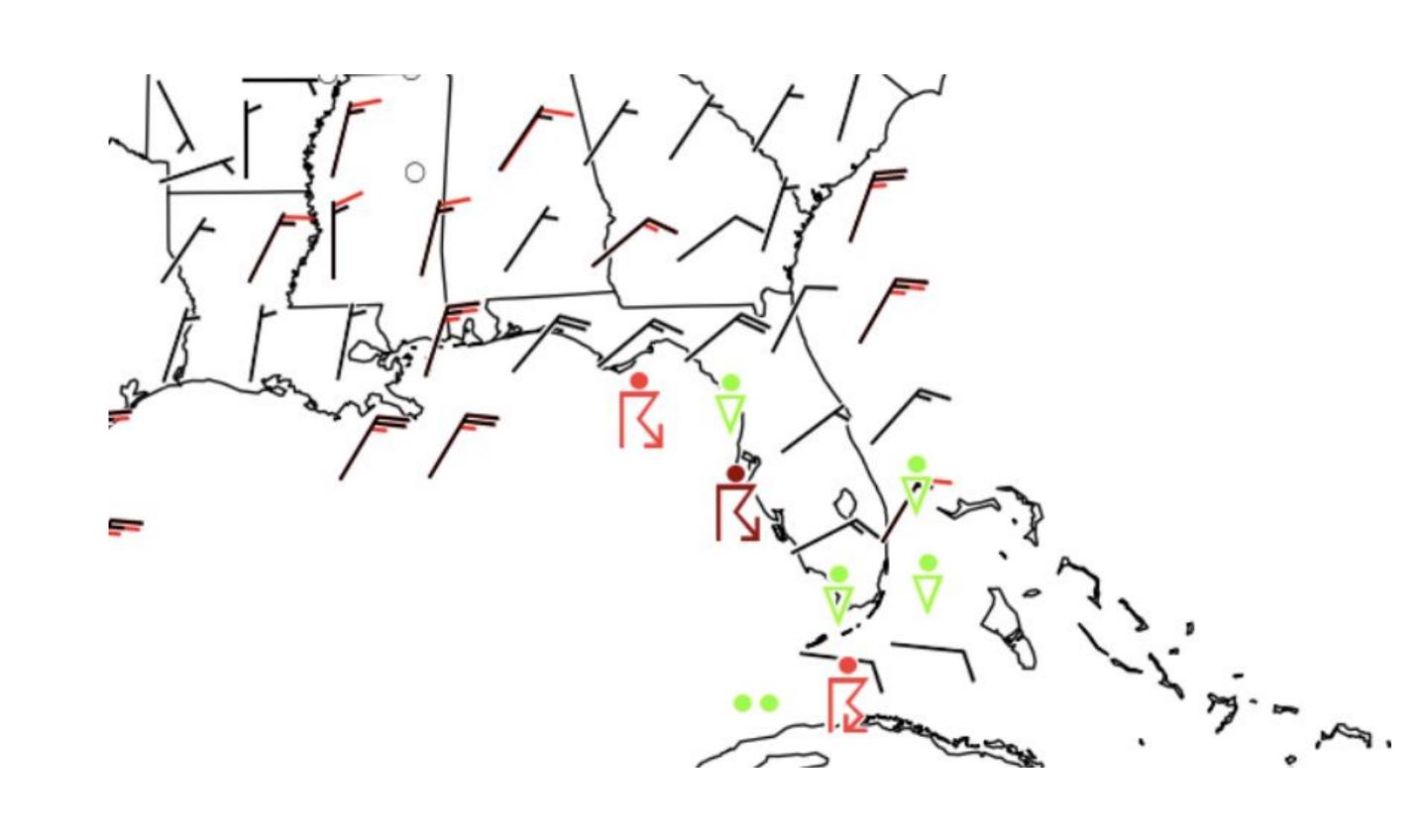


- Temps?
- Time Issued by traffic flow?
- Cloud Tops?
- Confidence?





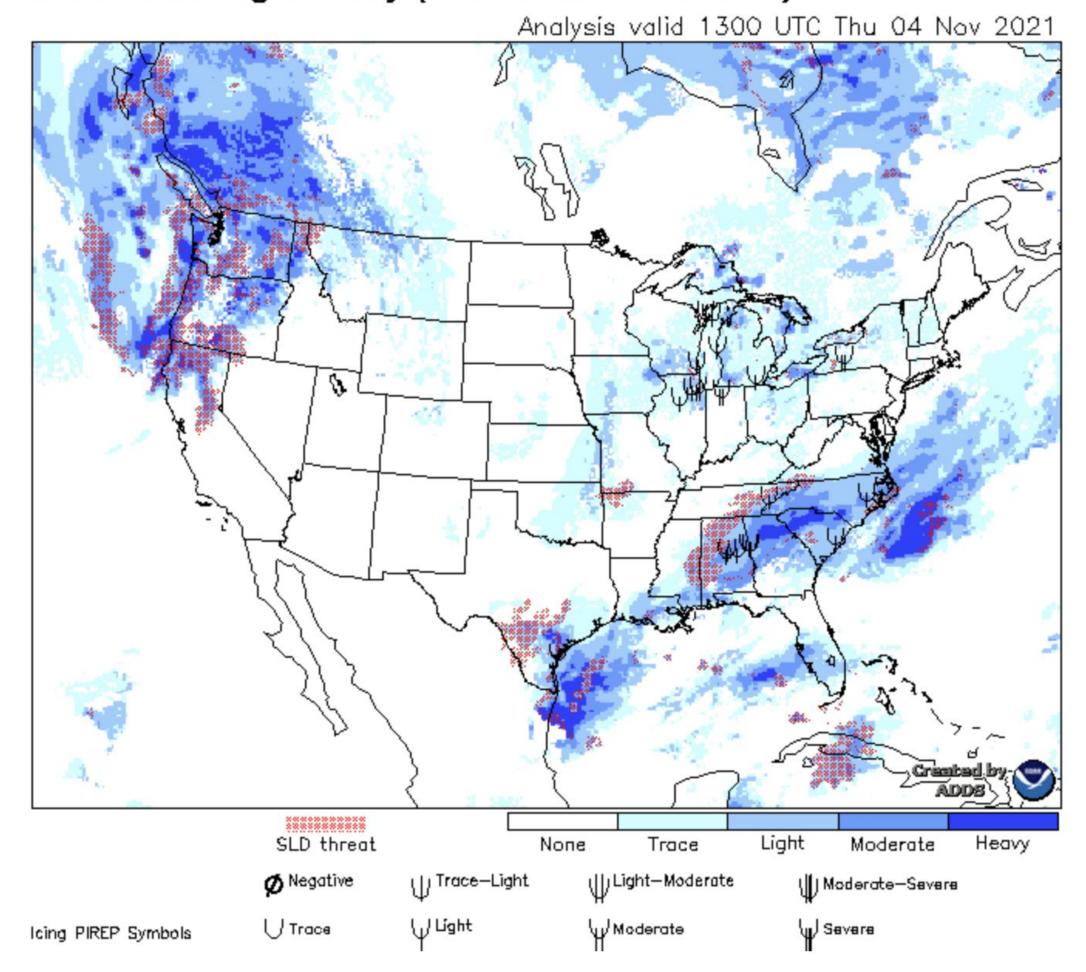
- Showers means no TS??
- Size of each area?
- Where is my airport?
- Confidence?





- What is heavy icing??
- Chances of icing in each area?
- Where is my airport?
- Confidence?

Maximum icing severity (1000 ft. MSL to FL300)



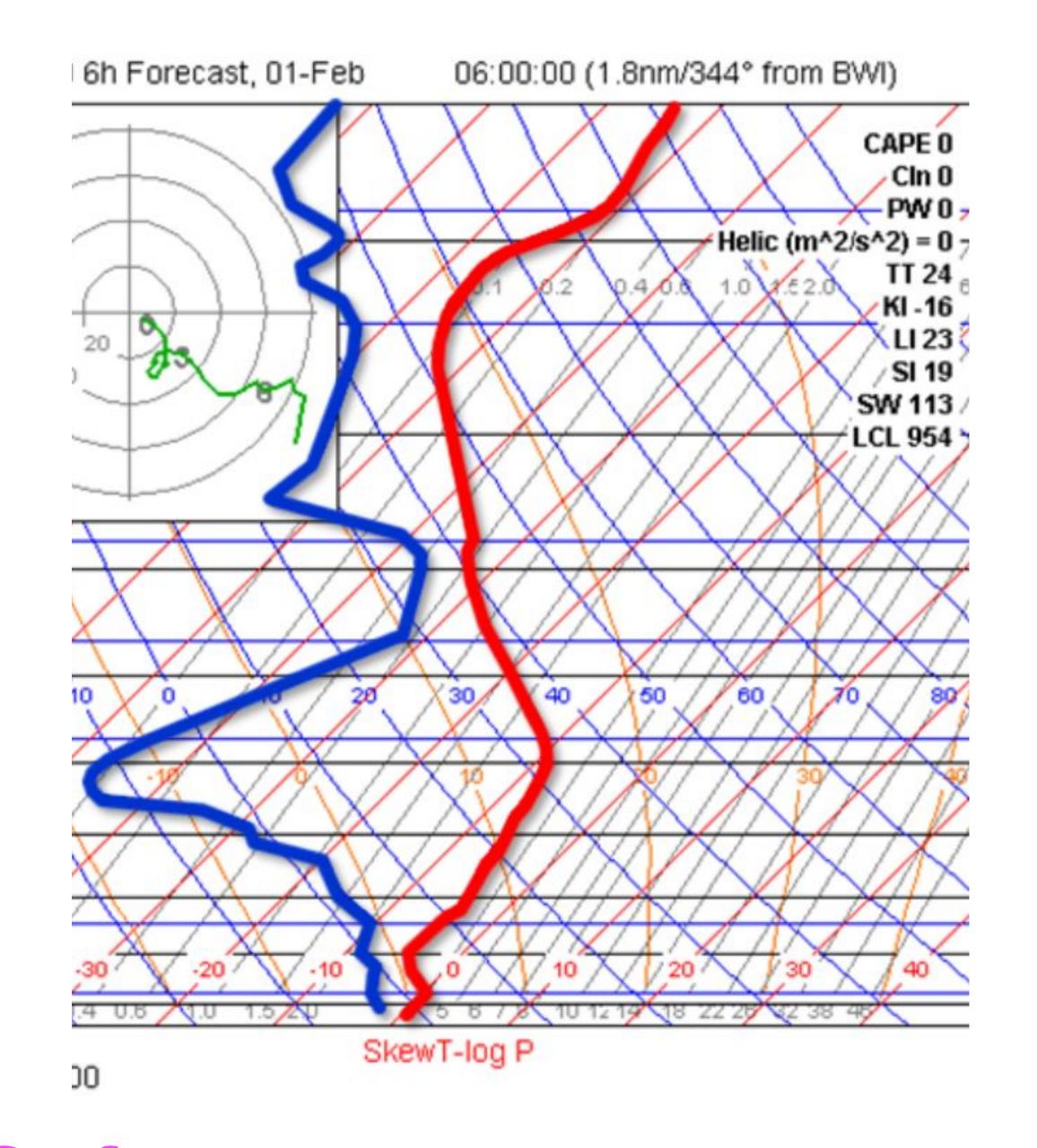


Possible Solutions

- Add Cloud Tops?
- Add temps?
- Change TAF to every 3 hours?
- Show Class C & gridlines?
- Add confidence?
- ????



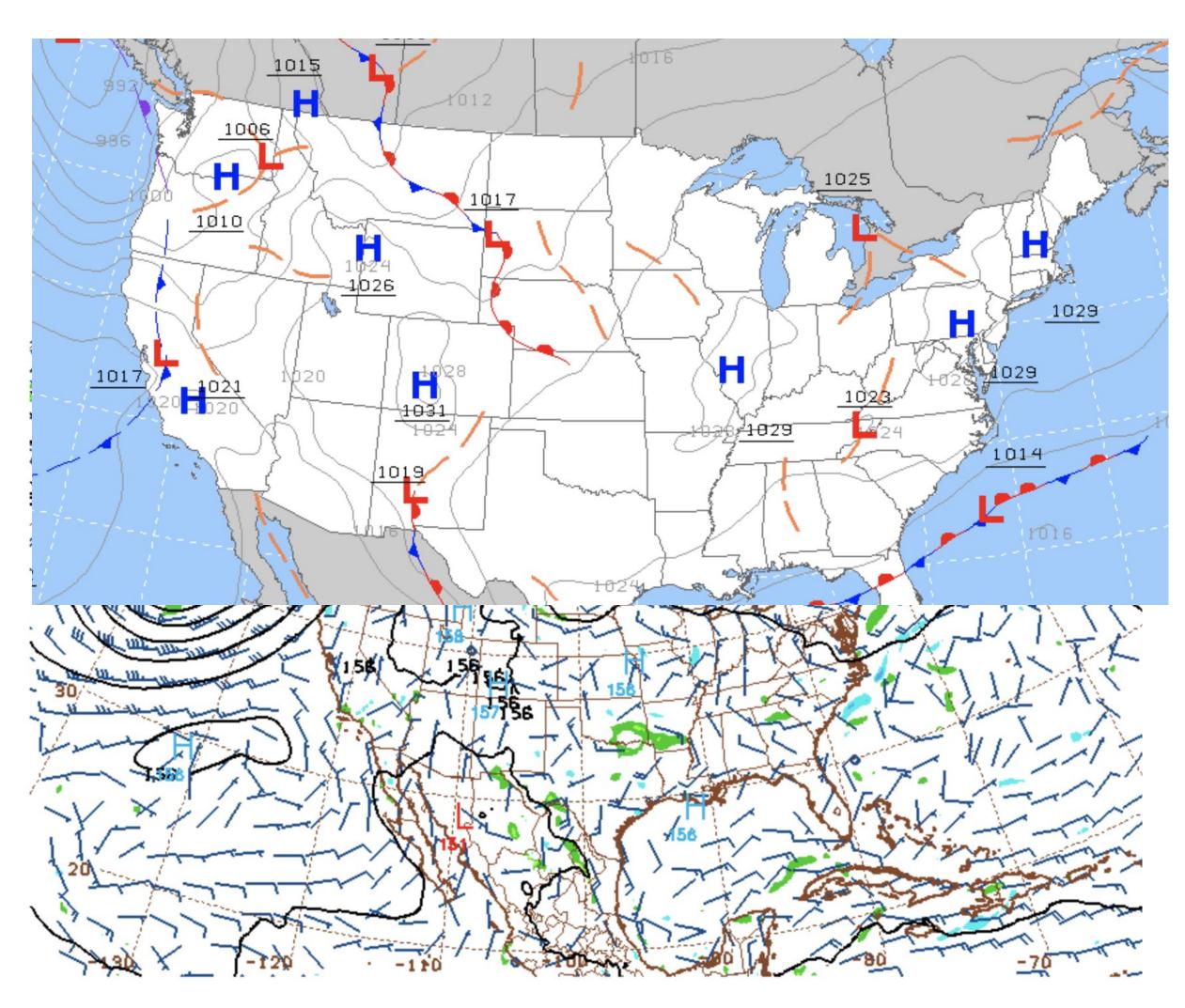
Can I get that in my language?





What's a mb?

- Is low really low?
- How fast does a 40W light bulb work?
 - How high is a millibar?





Possible Solutions

- All units standard. Pressure in inches of mercury, height in feet?
- Standard for low vs high?
- Add movement speed & direction to fronts?
- Skew-T plain language report by area?
- ????



Top 3 Pilot Requests

- 1. Add Light GA<5000# Weather Products
- 2. Add confidence and cloud tops
- 3. Convert to <u>GA Friendly terms</u>







50 Reasons Not To Change









What can you do to make weather forecasting and dissemination easier for General Aviation that would save lives?



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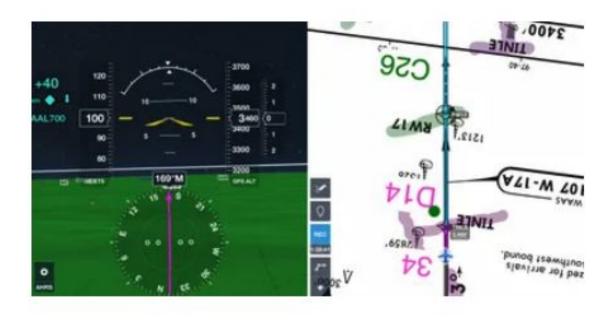
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About Us



Gary "GPS" (Guy in the Pink Shirt) Reeves:

- 2019 FAA Nat'l CFI of the year
- 8,000+hr Master CFI/CFII/MEI
- Lead rep for the FAA Safety Team
- Avidyne/Genesys Nat'l Partner

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The #MasteryNotMinimums safety mindset

Adrenaline paralysis & decision fatigue
Say mayday before the emergency
Telling ATC no
I'm a "loser

Training for #MasteryNotMinimums

The un-safety pilot Surviving the simulator Trial & error: The worst way to learn

Use+review+new=mastery #MasteryNotMinimumsFlight Planning

Get off the airways!
Filing (almost) GPS direct
Choosing all 3 alternates
Marking up charts

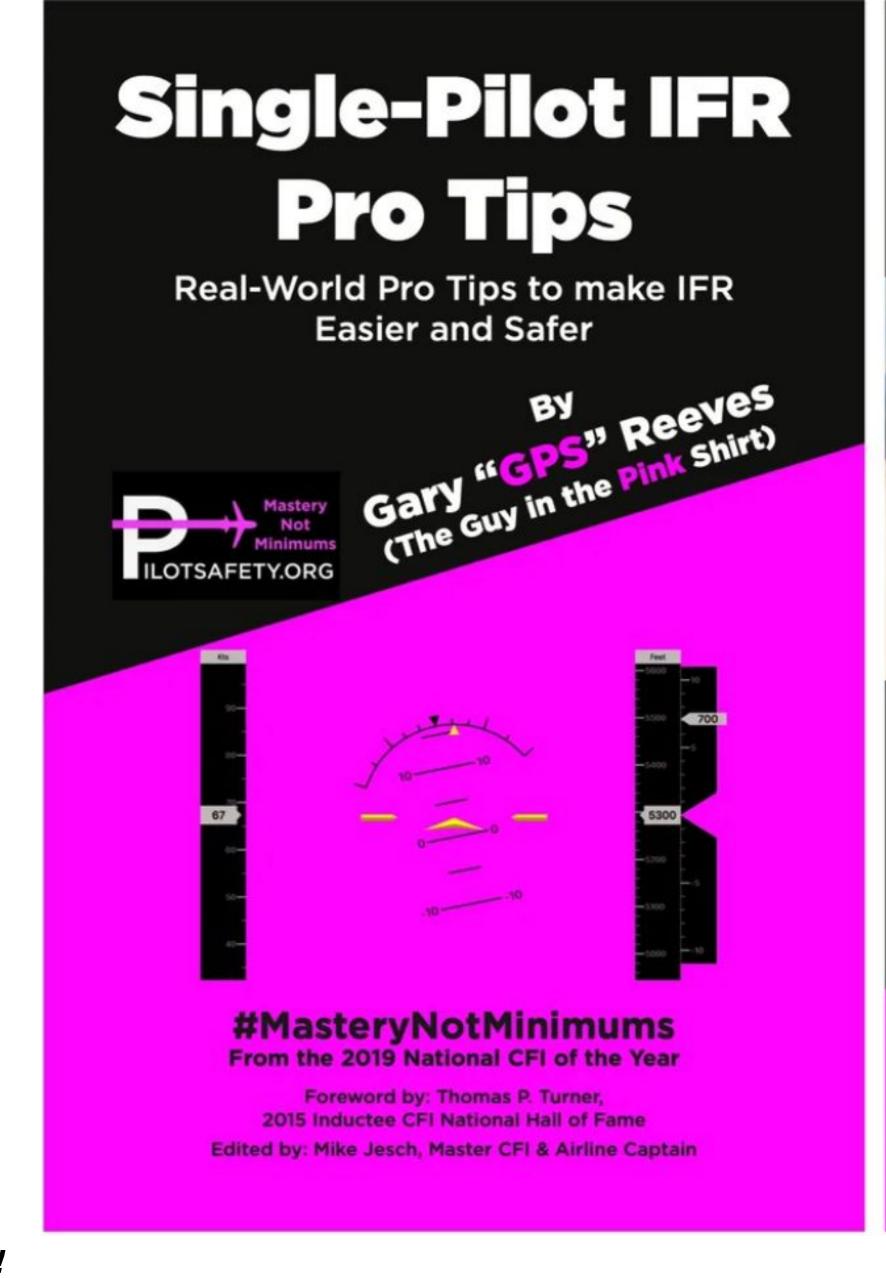
In-Flight #MasteryNotMinimums

Autopilots are the answer
3 Approaches to (almost) never do
Slow down and PAC
15 More #MasteryNotMinimums Tips

Appendix / Supplements

NTSB accident FTW95FA101
Additional resources
Blank PAC sheets
Mastery Training Information

DON'T FORGET TO ORDER EXTRA COPIES AS GIFTS!



A must-read for any IFR Student, pilot, or instructor looking for #MasteryNotMinimums level of skill and safety. Single Pilot IFR Pro Tips is a fun and easy-to-read book with the same training Reeves provides to Private 3-day Mastery clients for \$300 per hour.



Gary "GPS" Reeves shares over 8,000 hours of real-world experience. These are new ways of planning, flying, and training that no other instructor provides. Topics include:

- Declaring a Mayday before the emergency
- Telling ATC "No"
- Get off the airways, file almost GPS direct
- Three alternates that belong in every FPL
- Three approaches to almost never use
- PAC flying
- And a lot more!



